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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,037	02/12/2002	Michael A. Mayor	0918.0078C	3051
27896	7590	07/25/2006	[REDACTED]	EXAMINER
EDELL, SHAPIRO & FINNAN, LLC 1901 RESEARCH BOULEVARD SUITE 400 ROCKVILLE, MD 20850			[REDACTED]	KIM, KEVIN
			[REDACTED]	ART UNIT
			[REDACTED]	PAPER NUMBER
			2611	

DATE MAILED: 07/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/073,037	MAYOR ET AL.	
	Examiner Kevin Y. Kim	Art Unit 2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 08 May 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-17,24-38,43-49,51,52,54,55 and 57 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 34-38 is/are allowed.
 6) Claim(s) 1-17,24-33,43-49,52,55 is/are rejected.
 7) Claim(s) 51,54 and 57 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

Response to Amendment

1. The indicated allowability of claims is withdrawn in view of the newly discovered reference(s) to Gorday et al (US 6,665,521) and Witsaman et al (US 5,369,682). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claims 1-17,24-33,43-49,52,55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gorday et al (US 6,665,521) in view of Witsaman et al (US 5,369,682).

Claims 1-6,8-17, 24-28, 30-33,43,44,46-49,52,55

Gorday et al discloses a network of communication devices (see Fig.1), comprising:
a lead communication device and a plurality of other communication devices sharing a common time reference with the lead communication device, wherein the lead communication device commands the plurality of other communication devices to transmit signals to a receiving device at a future time, and wherein the lead communication device and the plurality of other communication devices respectively transmit a plurality of signals at the future time, such that the plurality of signals are respectively transmitted over the same communication channel substantially simultaneously. See col. 4, lines 46-57 in particular.

Gorday et al is silent on whether the simulcast signals are such that each of the plurality of signals is coherently combinable with corresponding information signals in others of the signals. Witsaman et al teaches the benefit of coherently combining the plurality of transmitted signals, i.e., to produce a single signal that can readily be processed by the intended. See col. 1, lines 40-54. The coherent combination requires timing aligning or phase rotating the plurality of received signals to produce a single signal.

Thus, it would have been obvious to one skilled in the art at time the invention was made to combine the received signals transmitted by a plurality of transmitters coherently as taught by Witsaman et al.

Claims 7,29.

It is well known in the art to measure the channel impulse response using a pilot signal.

Claims 15,45.

It would have been obvious that the further transmission time is set at a greater than the longest the propagation delay from the lead device to other devices to ensure all the devices transmit after receiving the simulcast command.

Allowable Subject Matter

4. Claims 34-38 are allowed.
5. Claims 51,54 and 57 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on 8AM --5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

July 21, 2006

AU 2611



KEVIN KIM
PATENT EXAMINER